

IN THE DRAWINGS

Proposed changes to Figs. 1-4 are submitted herewith, with a  
Letter to the Official Draftsman.

REMARKS

Reconsideration and allowance are respectfully requested in light of the above amendments and the following remarks.

Applicant acknowledges with appreciation the indication in the Office Action that claims 6-8 are allowed and claims 2 and 3 are allowable.

Proposed changes to Figs. 1-4 are submitted herewith to overcome the objections thereto.

Claims 1-5 have been canceled in favor of new claims 9-16 to highlight patentable features of this invention. Support for the subject matter of the new claims is provided in the original claims and the specification on page 1, line 26, through page 2, line 26, page 6, lines 3-13, page 12, lines 4-8, page 16, line 7, through page 17, line 9, page 18, line 5, through page 20, line 24, and page 22, lines 3-13. Claims 9-16 have been drafted to avoid the issues underlying the objections to claims 1, 6, and 7.

Claims 1, 4, and 5 were rejected, under 35 USC §103(a), as being unpatentable over Shou et al. (US 6,081,549). To the extent these rejections may be deemed applicable to new claims 9-16, the Applicant respectfully traverses.

Features of the present invention include estimating a phase rotation amount of a common pilot channel signal associated with a dedicated channel signal and performing channel estimation

using a common pilot channel signal having greater transmission power than the dedicated channel signal.

By contrast to the above-noted features of the present invention, Shou discloses general RAKE combining and a technique of phase error correction. Shou does not disclose the above-described features of the invention.

The Office Action proposes that Shou's elements 18, 19, and 17, shown in Figure 2, are equivalent to the claimed first channel estimator, second channel estimator, and third channel estimator, respectively (Office Action page 3, lines 1-8), which are now recited in independent claims 9 and 11. However, Shou's elements 18, 19, and 17 are a matched filter, a PN generator, and a multiplier, respectively. None of these elements performs channel estimation.

Accordingly, the Applicant submits that Shou does not teach or suggest the subject matter defined by claims 9 and 11. Independent claims 14 and 15 similarly recite the above-mentioned features distinguishing apparatus claims 9 and 11 from Shou, though with respect to methods. For similar reasons that these features distinguish claims 9 and 11 from Shou, so too do they distinguish claims 14 and 15. Therefore, allowance of claims 9, 11, 14, and 15 and all claims dependent therefrom is warranted.

In view of the above, it is submitted that this application is in condition for allowance and a notice to that effect is respectfully solicited.

If any issues remain which may best be resolved through a telephone communication, the Examiner is requested to telephone the undersigned at the local Washington, D.C. telephone number listed below.

Respectfully submitted,



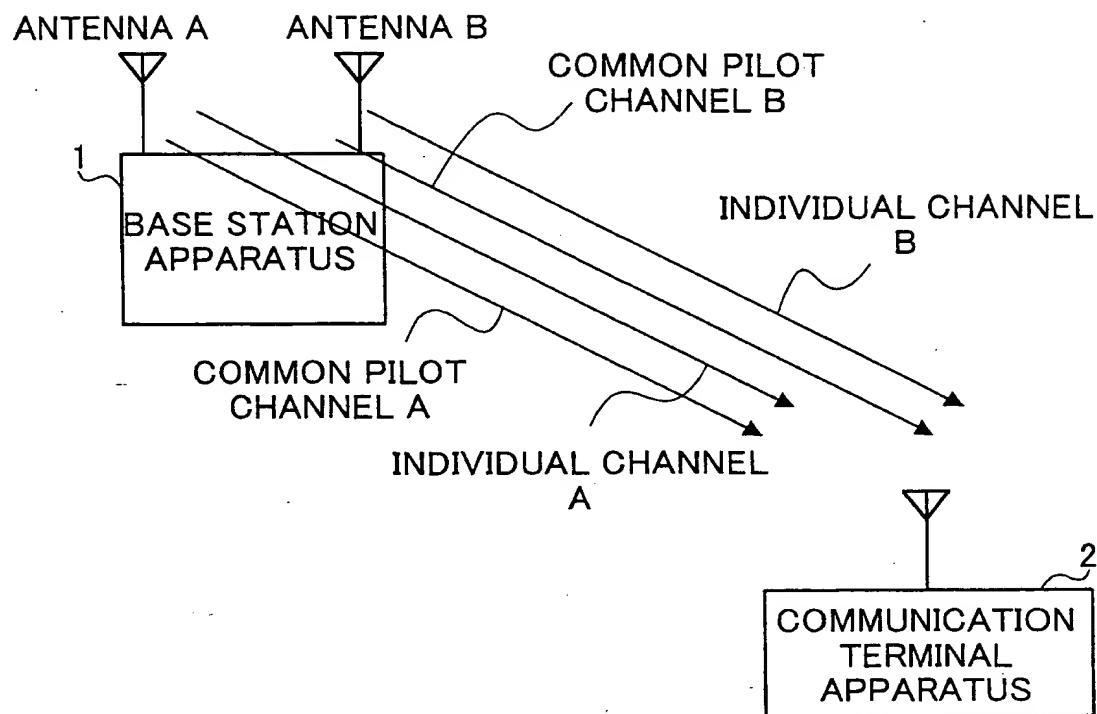
Date: May 24, 2005  
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*RELATED ART*

FIG.1

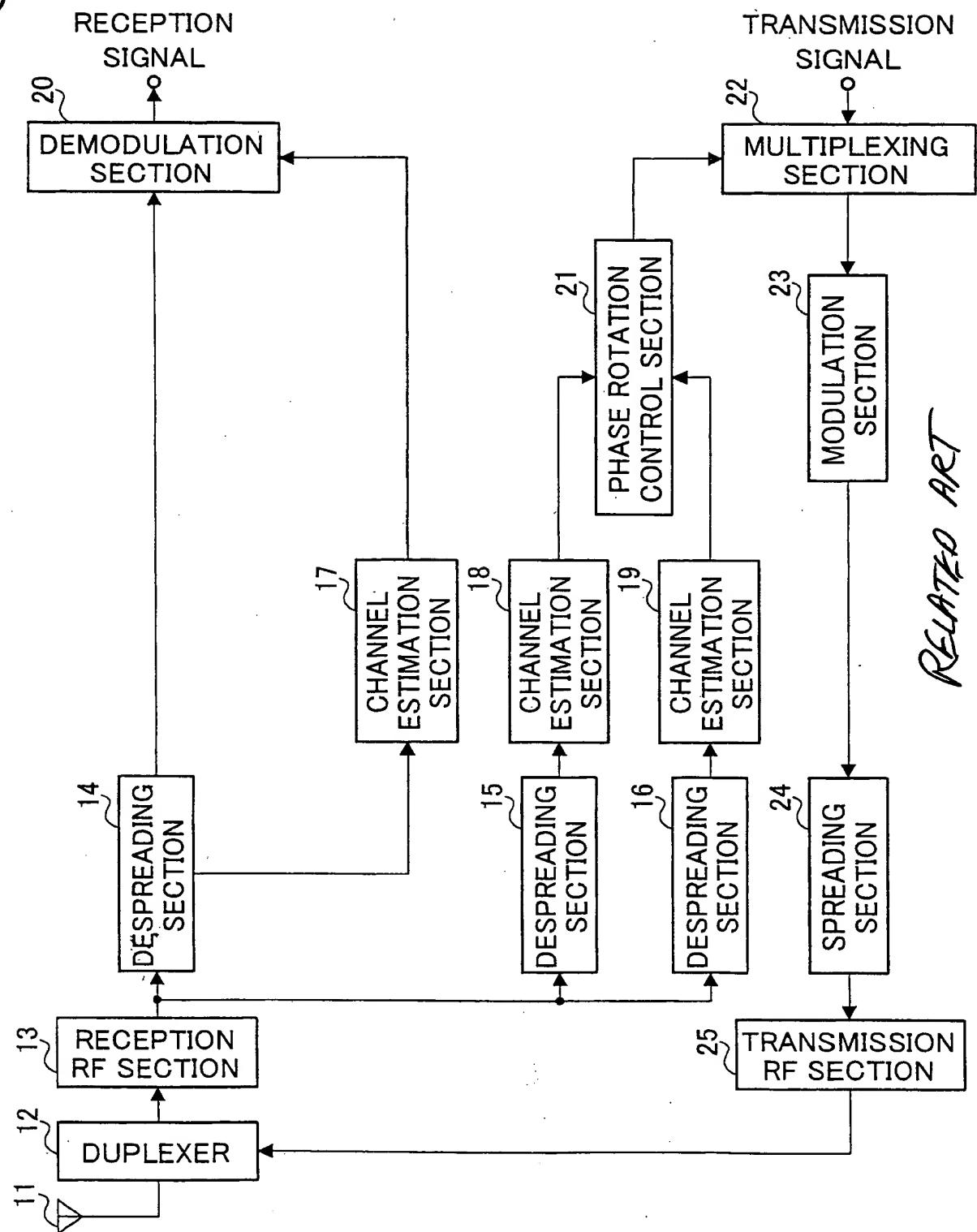


FIG.2

RELATED ART

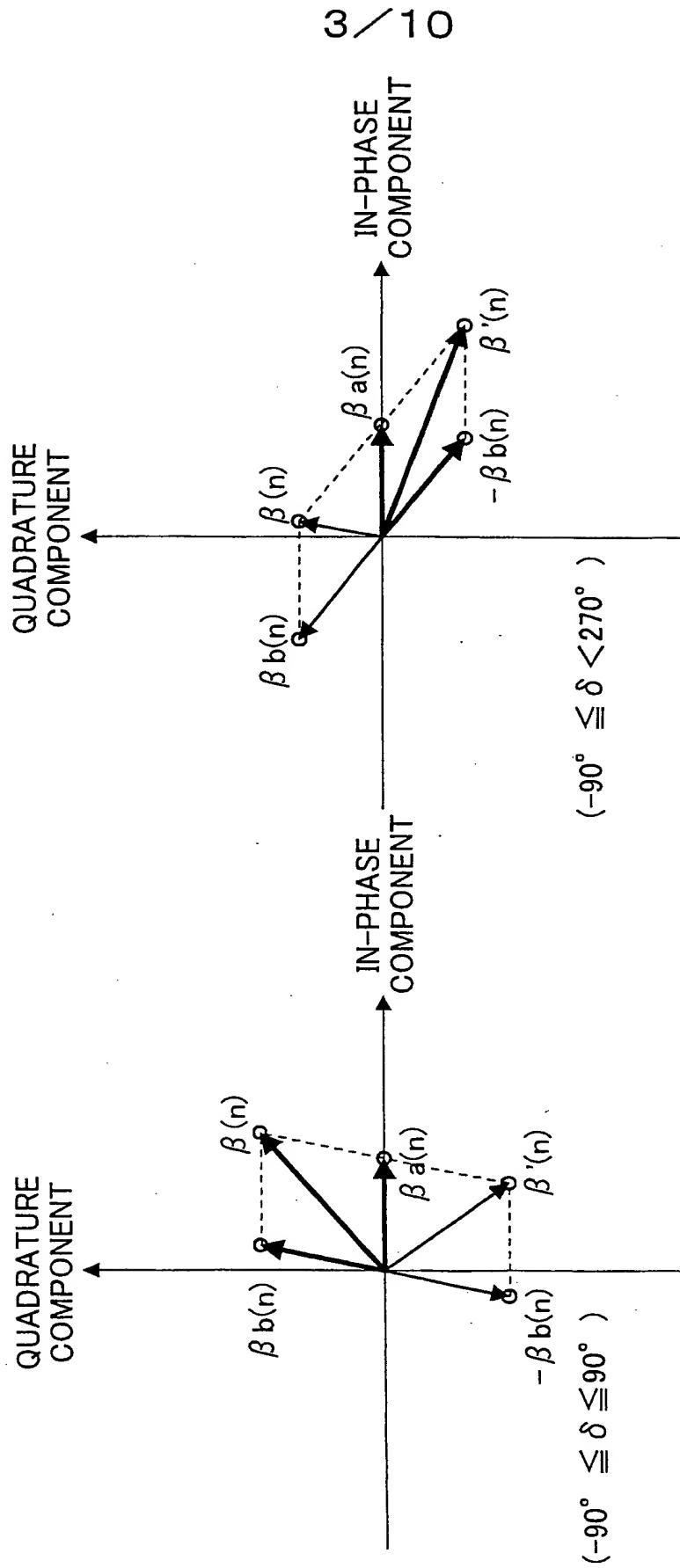


FIG.3B  
RELATED ART

FIG.3A  
RELATED ART



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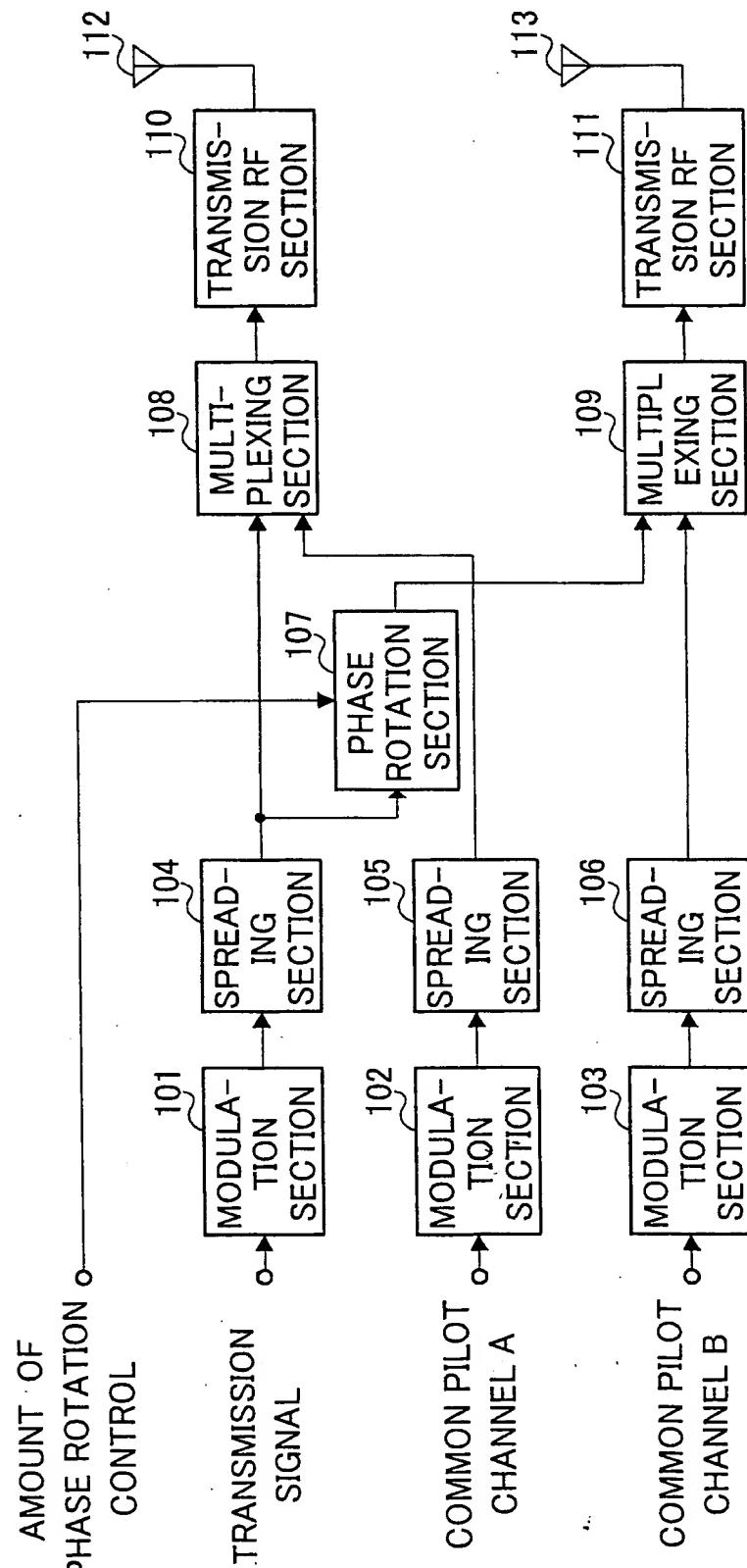
*RELATED ART*

FIG.4